

Converting Colors

XYZ(31.2235, 16.3509, 4.5280)

Have a look what the booklet for
XYZ(31.2235, 16.3509, 4.5280)
contains.

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Color

**XYZ(31.2235, 16.3509,
4.5280)**

Conversions

Conversions Part 1

Format	Color
Hex	DF1232
RGB	223, 18, 50
RGB Percent	87%, 7%, 20%
CMY	0.1255, 0.9293, 0.8039
CMYK	0.00, 0.92, 0.78, 0.13
HSL	351°, 85%, 47%
HSV	351°, 92%, 87%
XYZ	31.2235, 16.3509, 4.5280
YIQ	82.9430, 111.9080, 53.4120

Conversions

Conversions Part 2

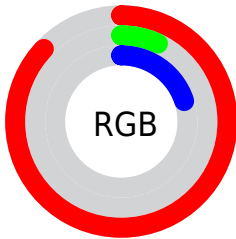
Format	Color
R_{YB}	223, 18, 50
Decimal	14619186
CIE Lab	47.43, 71.59, 40.07
CIE LCh	47, 82.040, 29.239
Yxy	16.3509, 0.5993, 0.3138
Android (android.graphics.Color)	4292809266 (0xFFDF1232)
YUV	82.9430, -16.2409, 122.8300
Hunter-Lab	40.4362, 67.0682, 21.6662

Details

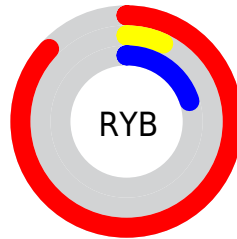
The XYZ color **31.2235, 16.3509, 4.5280** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **36.0454, 56.6671, 58.3480**, and the grayscale version is **8.2301, 8.6587, 9.4294**.

A 20% lighter version of the original color is **47.4899, 30.3075, 14.6562**, and **14.1334, 7.2822, 0.8330** is the 20% darker color. If you saturate the color by 10%, you get **30.7313, 15.8079, 3.0044**, and if you desaturate by 10%, it is **32.2701, 17.6556, 7.3085**.

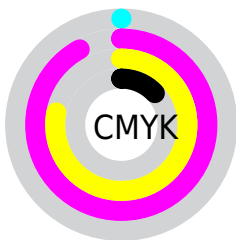
Distribution



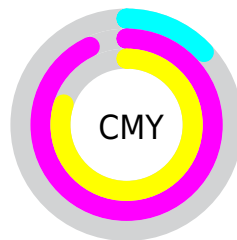
- Red (87%)
- Green (7%)
- Blue (20%)



- Red (87%)
- Yellow (7%)
- Blue (20%)



- Cyan (0%)
- Magenta (92%)
- Yellow (78%)
- Black (13%)





- Cyan (13%)
- Magenta (93%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.2235, 16.3509, 4.5280 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 31.2235, 16.3509, 4.5280 by changing the saturation by 10% instead.


 31.2235, 16.3509,
4.5280


 31.2235, 16.3509,
4.5280


299.3752,
231.4035, 153.9248


 20.9218, 9.7728,
1.9192


 60.9652, 37.2063,
15.2103


 13.1790, 5.2486,
0.5049


 81.1359, 52.2524,
24.1208


 7.6297, 2.3938,
0.0000


 105.3270, 70.8900,
35.9691

 3.9088, 0.8227,
0.0000

 133.9038, 93.5034,
51.1736

 1.6506, 0.0000,
0.0000

 167.2316,
120.4771, 70.1529

 0.4251, 0.0000,
0.0000

 205.6759,

 0.0000, 0.0000,

152.1954, 93.3255

0.0000

249.6020,
189.0427, 121.1100

■ 31.2235, 16.3509,
4.5280

■ 31.2235, 16.3509,
4.5280

■ 30.7313, 15.8079,
3.0044

■ 32.2701, 17.6556,
7.3085

■ 33.9354, 19.9013,
11.2083

■ 36.3005, 23.2250,
16.3330

■ 39.4336, 27.7404,
22.7751

■ 43.3947, 33.5467,
30.6182

■ 48.2376, 40.7327,
39.9388

■ 54.0116, 49.3794,
50.8081

■ 60.7624, 59.5614,
63.2922

■ 68.5325, 71.3482,
77.4536

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



34.1464, 16.3509, 18.3405



31.2235, 16.3509, 4.5280



23.8504, 16.3509, 0.7886

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



31.2235, 16.3509, 4.5280



6.3528, 16.3509, 4.1682



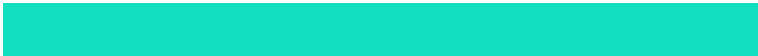
15.3561, 16.3509, 95.4290

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



31.2235, 16.3509, 4.5280



36.0454, 56.6671, 58.3480

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



9.4278, 16.3509, 79.1944



31.2235, 16.3509, 4.5280



5.3298, 16.3509, 17.2768

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



31.2235, 16.3509, 4.5280



9.6602, 16.3509, 0.7125



6.2510, 16.3509, 45.4207



23.4250, 16.3509, 80.6416

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



31.2235, 16.3509, 4.5280



18.3021, 16.3509, 0.0826



6.2510, 16.3509, 45.4207



13.0727, 16.3509, 93.2980

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



31.2239, 16.3519, 4.5282



68.1179, 59.3032, 59.3294



34.4824, 16.5596, 71.1905



13.8935, 11.6683, 11.3973



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.2239, 16.3519, 4.5282



41.6191, 21.4116, 3.9262



33.8971, 22.4443, 3.1194



13.7939, 13.7352, 14.6851



18.0962, 9.3055, 1.9062



1.2817, 0.6559, 0.2760

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



31.2239, 16.3519, 4.5282



41.6191, 21.4116, 3.9262



25.2371, 28.7923, 74.0390



13.7939, 13.7352, 14.6851



18.0962, 9.3055, 1.9062



1.2817, 0.6559, 0.2760

Previews

White Background



This preview shows how the XYZ color 31.2235, 16.3509, 4.5280 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 31.2235, 16.3509, 4.5280 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 31.2235, 16.3509, 4.5280

Background



This preview shows how black text looks on a background with the XYZ color 31.2235, 16.3509, 4.5280.



This preview shows how white text looks on a background with the XYZ color 31.2235, 16.3509,

4.5280.

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

31.2235, 16.3509, 4.5280

Protanopia

15.4557, 16.7536, 9.0758

Deuteranopia

16.8363, 16.6033, 3.9864



Tritanopia

30.6199, 16.3189, 2.1978

Trichromacy



Original Color

31.2235, 16.3509, 4.5280

Protanomaly

18.0774, 13.3562, 6.7795

Deuteranomaly

19.7109, 13.8502, 3.7323

Tritanomaly

30.6779, 16.2413, 2.8143

Monochromacy



Original Color

31.2235, 16.3509, 4.5280

Achromatopsia

8.2219, 8.6500, 9.4199

Achromatomaly

12.5328, 8.6512, 6.9705

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.2235, 16.3509, 4.5280 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(223, 18, 50)` looks like.

```
.text, #text, p{  
    color:rgb(223, 18, 50)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(223, 18, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 18, 50) }
```

Border

The CSS property to change the border of an element to XYZ 31.2235, 16.3509, 4.5280 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(223, 18, 50) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(223, 18, 50) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(223, 18, 50)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 18, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 18, 50);  
box-shadow:4px 4px 4px 4px rgb(223, 18,  
50) }
```

Background

The CSS property to change the background color of an element to XYZ 31.2235, 16.3509, 4.5280 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 18, 50) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(223, 18,  
50) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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